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10/700,143	11/03/2003	Robert M. Lorence	18029	3847
31976 7590 12/17/2008 Wellstat Management Company, LLC LEGAL DEPARTMENT 930 CLOPPER ROAD GATTHERSBURG, MD 20878			EXAMINER	
			KINSEY WHITE, NICOLE ERIN	
			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/700,143 LORENCE ET AL. Office Action Summary Examiner Art Unit NICOLE KINSEY WHITE 1648 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 14 August 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.5-8.11-14.16-19 and 21 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1,5-8,11-14,16-19 and 21 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

information Disclosure Statement(s) (PTO/S5/06)
 Paper No(s)/Mail Date ______.

Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

The rejection of claims 13-14 under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-17 of copending Application No. 10/548,057 ("the '057 application") in view of Pecora et al. (Journal of Clinical Oncology, 2002, 20(9):2251-2266) and as evidenced by Chandler et al. (American Journal of Surgery, 1965, 109:221-222), Martensson et al. (Journal of Surgical Oncology, 1984, 27:152-158), Drougas et al. (Am. J Surg., 1998,175:408-412) and Wessels et al. (Journal of Surgical Research, 2001, 95, 8–12) has been withdrawn in view of the abandonment of copending Application No. 10/548,057.

The rejection of claims 13-14 under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-13 of copending Application No. 10/547,654 ("the '654 application") in view of Pecora et al. (Journal of Clinical Oncology, 2002, 20(9):2251-2266) and as evidenced by Chandler et al. (American Journal of Surgery, 1965, 109:221-222), Martensson et al. (Journal of Surgical Oncology, 1984, 27:152-158), Drougas et al. (Am. J Surg., 1998,175:408-412) and Wessels et al. (Journal of Surgical Research, 2001, 95, 8–12) has been withdrawn in view of the abandonment of copending Application No. 10/547,654.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent. (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 5-8, 13, 14, 16-19 and 21 are rejected under 35 U.S.C. 102(a) as being anticipated by Pecora et al. (Journal of Clinical Oncology, 2002, 20(9):2251-2266) as evidenced by Laurie et al. (Clin. Cancer Res., 2006, 12(8):2555-2562), Chandler et al. (American Journal of Surgery, 1965, 109:221-222), Martensson et al. (Journal of Surgical Oncology, 1984, 27:152-158), Drougas et al. (Am. J Surg., 1998,175:408-412) and Wessels et al. (Journal of Surgical Research, 2001, 95, 8–12).

Pecora et al. teaches that oncolytic NDV strains, including replication-competent PV701, administered intravenously (i.e., systemically), replicate selectively in human cancer cells implanted in athymic mice resulting in tumor regression (page 2251-introduction). Human patients with various tumor types (e.g., colorectal, pancreatic, renal, breast, lung, etc.) were also given PV701, which is mesogenic as evidenced by Laurie et al. (page 2556 under heading Patients and Methods). The virus can be administered over one or more cycles where at least one cycle comprises one or more desensitizing does followed by one or more escalating does of a higher amount of virus

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(pages 2252-top of left column and 2253-under heading Desensitizing regimen). The desensitizing dose given was 1.2×10^{10} PFU per square meter of patient surface area and the escalating dose given was 2.4×10^{10} , 4.8×10^{10} , 7.2×10^{10} , 9.6×10^{10} or 1.44×10^{11} PFU per square meter of patient surface area (page 2253-under heading Desensitizing regimen).

Pecora et al. contemplates treating subjects with carcinoid tumors. This includes those subjects who also have carcinoid syndrome. (It is well known in the art that patients with carcinoid syndrome have carcinoid tumors). By treating a population of subjects with carcinoid tumors with NDV, Pecora et al. will also treat the 10% or more of the subjects who also have carcinoid syndrome. Therefore, a person of ordinary skill in the art would recognize that treating carcinoid tumors with NDV, according to the method of Pecora et al., to reduce the size of or eliminate the tumors will inherently reduce or treat carcinoid syndrome symptoms in those subjects who have carcinoid syndrome as evidenced by Chandler et al. (resection of carcinoid tumors relieved carcinoid syndrome symptoms), Martensson et al. (embolization of hepatic carcinoid tumors relieved carcinoid syndrome symptoms), Drougas et al. (hepatic artery chemoembolization of carcinoid tumors relieved carcinoid syndrome symptoms) and Wessels et al. (radiofrequency ablation of carcinoid tumors relieved carcinoid syndrome symptoms).

Patients who were taking octreotide before tumor treatment to control carcinoid syndrome were able to reduce their octreotide dose or eliminate their octreotide dose after tumor treatment (see Wessels et al. abstract). Further, a reduction of tumor size or

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eliminating the tumors also reduced the levels of 5-hydroxyindole acetic acid (5-HIAA) in urine (see Martensson et al., abstract). Therefore, a person of ordinary skill in the art would recognize that treating carcinoid tumors by any means, including NDV, to reduce the size of or eliminate the tumors will inherently reduce or treat carcinoid syndrome in those subjects who have carcinoid syndrome, reduce the levels of 5-HIAA in urine, and reduce the need for octreotide.

Response to Arguments

Applicants argue that for Pecora et al. to inherently anticipate the rejected claims, the disclosure of Pecora et al. would had to have necessarily resulted, inter alia, in the decrease of one or more symptoms of carcinoid syndrome. Applicants further argue that Pecora et al. does disclose that one patient had a carcinoid tumor. However, as evidenced by the Lorence Declaration, submitted herewith, the sole patient reported in Pecora et al. as having a carcinoid tumor did not have carcinoid syndrome. Applicants' arguments and Declaration filed August 14, 2008 have been fully considered but are not persuasive.

As stated above, it is well known in the art that patients with carcinoid syndrome have carcinoid tumors. Also, as stated above, the teachings of Pecora et al., along with the other cited references, teach one of ordinary skill in the art to treat carcinoid tumors with NDV. Thus, treating the entire population of individuals with carcinoid tumors (whether they have carcinoid syndrome or not), as taught by Pecora et al., will inherently and necessarily treat those individuals who have carcinoid tumors and carcinoid syndrome. Additionally, those individuals with carcinoid tumor and carcinoid

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syndrome will see a reduction or elimination of one or more carcinoid syndrome symptom because it is well known in the art that treating or removing carcinoid tumors alleviates carcinoid syndrome symptoms (see Chandler et al. (resection of carcinoid tumors relieved carcinoid syndrome symptoms), Martensson et al. (embolization of hepatic carcinoid tumors relieved carcinoid syndrome symptoms), Drougas et al. (hepatic artery chemoembolization of carcinoid tumors relieved carcinoid syndrome symptoms) and Wessels et al. (radiofrequency ablation of carcinoid tumors relieved carcinoid syndrome symptoms)).

Claims 1, 5-8, 11-14, 16-19 and 21 are rejected under 35 U.S.C. 102(b) as being anticipated by Roberts et al. (WO 00/62735) as evidenced by Chandler et al. (American Journal of Surgery, 1965, 109:221-222), Martensson et al. (Journal of Surgical Oncology, 1984, 27:152-158), Drougas et al. (Am. J Surg., 1998,175:408-412) and Wessels et al. (Journal of Surgical Research, 2001, 95, 8–12).

Roberts et al. teaches a method of treating a neoplasm, which is defined to include tumors and cancer, in a mammal by administering a replication-competent RNA virus (page 7, lines 4-8; pages 31-32; and Examples). Roberts et al. also discloses using a mesogenic strain of NDV (MK107) that selectively kills tumor cells (page 17, line 24 to page 18, line 26 and the Examples, especially Example 15). NDV is a Paramyxovirus (page 18, lines 6-15). The virus can be administered systemically or intravenously (page 33, lines 17 and 26), and the virus can be administered over the course of 4 minutes to 24 hours or 20 to 60 minutes (page 36, lines 16-19). The virus

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can be administered over one or more cycles where at least one cycle comprises one or

more desensitizing doses followed by one or more escalating doses of a higher amount of virus (pages 34-35 and the Examples, especially Example 20). The desensitizing dose can be at least 1.2 x 10¹⁰ PFU per square meter of patient surface area (page 35, line 17) and the escalating dose can be at least 2.4 x 10¹⁰ PFU per square meter of patient surface area (page 35, line 20). The subject can be human (page 65 and Example 20) or non-human (Examples 2-9), and after treating the subject, the size of

the tumor decreases (page 32, lines 18-22 and Example 20).

Roberts et al. contemplates treating subjects with carcinoid tumors. This includes those subjects who also have carcinoid syndrome (It is well known in the art that patients with carcinoid syndrome have carcinoid tumors). By treating a population of subjects with carcinoid tumors with NDV, Roberts et al. will also treat the 10% or more of the subjects who also have carcinoid syndrome. Therefore, a person of ordinary skill in the art would recognize that treating carcinoid tumors with NDV, according to the method of Roberts et al., to reduce the size of or eliminate the tumors will inherently reduce or treat carcinoid syndrome symptoms in those subjects who have carcinoid syndrome as evidenced by Chandler et al. (resection of carcinoid tumors relieved carcinoid syndrome symptoms), Martensson et al. (embolization of hepatic carcinoid tumors relieved carcinoid syndrome symptoms), Drougas et al. (hepatic artery chemoembolization of carcinoid tumors relieved carcinoid syndrome symptoms) and Wessels et al. (radiofrequency ablation of carcinoid tumors relieved carcinoid syndrome symptoms).

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Patients who were taking octreotide before tumor treatment to control carcinoid syndrome were able to reduce their octreotide dose or eliminate their octreotide dose after tumor treatment (see Wessels et al. abstract). Further, a reduction of tumor size or eliminating the tumors also reduced the levels of 5-hydroxyindole acetic acid (5-HIAA) in urine (see Martensson et al., abstract). Therefore, a person of ordinary skill in the art would recognize that treating carcinoid tumors by any means, including NDV, to reduce the size of or eliminate the tumors will inherently reduce or treat carcinoid syndrome in those subjects who have carcinoid syndrome, reduce the levels of 5-HIAA in urine, and reduce the need for octreotide.

Response to Arguments

Applicants argue that for Roberts et al. to inherently anticipate the rejected claims, the disclosure of Roberts et al. would had to have necessarily resulted, inter alia, in the decrease of one or more symptoms of carcinoid syndrome. Applicants' arguments filed August 14, 2008 have been fully considered but are not persuasive.

As stated above, it is well known in the art that patients with carcinoid syndrome have carcinoid tumors. Also, as stated above, the teachings of Roberts et al., along with the other cited references, teach one of ordinary skill in the art to treat carcinoid tumors with NDV. Thus, treating the entire population of individuals with carcinoid tumors (whether they have carcinoid syndrome or not), as taught by Roberts et al., will inherently and necessarily treat those individuals who have carcinoid tumors and carcinoid syndrome. Additionally, those individuals with carcinoid tumor and carcinoid syndrome will see a reduction or elimination of one or more carcinoid syndrome

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symptom because it is well known in the art that treating or removing carcinoid tumors alleviates carcinoid syndrome symptoms (see Chandler et al. (resection of carcinoid tumors relieved carcinoid syndrome symptoms), Martensson et al. (embolization of hepatic carcinoid tumors relieved carcinoid syndrome symptoms), Drougas et al. (hepatic artery chemoembolization of carcinoid tumors relieved carcinoid syndrome symptoms) and Wessels et al. (radiofrequency ablation of carcinoid tumors relieved carcinoid syndrome symptoms)).

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Omum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1, 5-8 and 16-17 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-3, 6,

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7, 19, 22-25 and 27 of US Patent No. 7,056,689 ("the '689 patent") in view of Pecora et al. (Journal of Clinical Oncology, 2002, 20(9):2251-2266) and as evidenced by Chandler et al. (American Journal of Surgery, 1965, 109:221-222), Martensson et al. (Journal of Surgical Oncology, 1984, 27:152-158), Drougas et al. (Am. J Surg., 1998,175:408-412) and Wessels et al. (Journal of Surgical Research, 2001, 95, 8–12). Although the conflicting claims are not identical, they are not patentably distinct from each other because both sets of claims are directed to a method of treating cancer in a mammal by administering a negative-stranded RNA virus.

The instant claims are drawn to a method for treating a mammalian subject having a carcinoid tumor and carcinoid syndrome, comprising administering to the subject an amount of a therapeutic virus effective to treat the tumor and decrease one or more symptoms of the carcinoid syndrome, wherein the virus is a Newcastle Disease virus (NDV).

The patented claims are drawn to a method of treating cancer in a mammal having a tumor comprising administering intravenously to said mammal more than one dose of a pharmaceutical composition comprising live purified NDV in an amount sufficient to cause tumor regression

Pecora et al. teaches that oncolytic NDV strains, including replication-competent PV701, administered intravenously (i.e., systemically), replicate selectively in human cancer cells resulting in tumor regression (page 2251-introduction). Human patients with various tumor types (e.g., colorectal, pancreatic, renal, breast, lung, carcinoid, etc.) were also given PV701, which is a mesogenic strain of NDV.

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It would have been obvious to one of ordinary skill in the art to modify the methods taught by the '689 patent to also treat subjects with carcinoid tumors and carcinoid syndrome. One would have been motivated to do so given the suggestion by Pecora et al. to treat various malignancies with NDV. There would have been a reasonable expectation of success given the fact that Pecora et al. observed in seven patients with diverse malignancies (including mesothelioma, melanoma, colon carcinoma, breast carcinoma, pancreatic carcinoma, and carcinoid) measurable tumor reduction after treatment with NDV.

The '689 patent contemplates treating subjects with cancer/tumors, which encompasses carcinoid tumors. This also includes those subjects who have carcinoid syndrome (It is well known in the art that patients with carcinoid syndrome have carcinoid tumors). By treating a population of subjects with carcinoid tumors with NDV, the '698 patent will also treat the 10% or more of the subjects who also have carcinoid syndrome. Therefore, a person of ordinary skill in the art would recognize that treating carcinoid tumors with NDV, according to the method of the '689 patent, to reduce the size of or eliminate the tumors will inherently reduce or treat carcinoid syndrome symptoms in those subjects who have carcinoid syndrome as evidenced by Chandler et al. (resection of carcinoid tumors relieved carcinoid syndrome symptoms), Martensson et al. (embolization of hepatic carcinoid tumors relieved carcinoid tumors relieved carcinoid syndrome symptoms) and Wessels et al. (radiofrequency ablation of carcinoid tumors relieved carcinoid syndrome symptoms) and Wessels et al. (radiofrequency ablation of carcinoid tumors relieved carcinoid syndrome symptoms).

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Thus, the patented claims and the instant claims are not patentably distinct.

Claims 1, 5-8, 13, 16, and 17 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1, 3, 6-8, 50, 51, 63-65, 69, 70, 73, 116-120, and 132 of copending Application No. 10/167,652 ("the '652 application") in view of Pecora et al. (Journal of Clinical Oncology, 2002, 20(9):2251-2266). Although the conflicting claims are not identical, they are not patentably distinct from each other because both sets of claims are directed to a method of treating cancer by administering a replication competent, interferon sensitive clonal RNA virus to a mammal. The carcinoid tumor of the instant application is within the breadth of the term neoplasm, which is recited in the '652 application claims (see claims 7, 50 and 51 (solid tumor)). In addition, treating a neoplasm or solid tumor in a mammal with a virus will obviously, at the same time, infect the neoplasm or tumor.

Pecora et al. teaches that oncolytic NDV strains, including replication-competent PV701, administered intravenously (i.e., systemically), replicate selectively in human cancer cells implanted in athymic mice resulting in tumor regression (page 2251-introduction). Human patients with various tumor types (e.g., colorectal, pancreatic, renal, breast, lung, carcinoid, etc.) were also given PV701, which is a mesogenic strain of Newcastle Disease Virus (NDV).

It would have been obvious to one of ordinary skill in the art to modify the methods taught by the '652 application to also treat subjects with carcinoid tumors and

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carcinoid syndrome. One would have been motivated to modify the methods taught by the '652 application given the suggestion by Pecora et al. to treat various malignancies with NDV. There would have been a reasonable expectation of success given the fact that Pecora et al. observed in seven patients with diverse malignancies (including mesothelioma, melanoma, colon carcinoma, breast carcinoma, pancreatic carcinoma, and carcinoid) measurable tumor reduction after treatment with NDV.

The '652 application contemplates treating subjects with solid tumors, which encompasses carcinoid tumors. This also includes those subjects who have carcinoid syndrome (It is well known in the art that patients with carcinoid syndrome have carcinoid tumors). By treating a population of subjects with carcinoid tumors with NDV, the '652 application will also treat the 10% or more of the subjects who also have carcinoid syndrome. Therefore, a person of ordinary skill in the art would recognize that infecting solid tumors, e.g., carcinoid tumors, with NDV according to the method of the '652 application will inherently reduce or treat carcinoid syndrome symptoms in those subjects who have carcinoid syndrome.

Thus, the copending claims and the instant claims are not patentably distinct.

Claims 13-14 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-6, 12, 17, 21, 22, 26-28 and 34 of copending Application No. 10/518,732 ("the '732 application"). Although the conflicting claims are not identical, they are not patentably distinct from each other.

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The copending claims are drawn to a method for administering a therapeutic virus to a subject in one or more cycles, wherein at least one cycle comprises administering sequentially two or more desensitization doses of the virus followed by administering one or more escalated doses of the virus, wherein:

the virus is a negative-stranded RNA virus;

the amount of the virus in the second and any subsequent desensitization dose is not less than the amount of the virus in the preceding desensitization dose; and the amount of the virus in each of the one or more escalated doses is higher than the amount of virus in each of the desensitization doses, wherein the virus is a mesogenic strain of Newcastle Disease Virus.

The instant claims are drawn to a method for treating a mammalian subject having a carcinoid tumor and carcinoid syndrome, comprising administering to the subject an amount of a therapeutic virus effective to treat the tumor and decrease one or more symptoms of the carcinoid syndrome, wherein the virus is a mesogenic strain of Newcastle Disease virus, wherein the virus is administered intravenously, wherein the therapeutic virus is administered to the subject in one or more cycles, wherein at least one cycle comprises administering sequentially one or more desensitization doses of the virus followed by administering one or more escalated doses of the virus, wherein the amount of the virus in each escalated dose is higher than the amount of virus in each desensitization dose.

The administration methods are the same, and thus, not patentably distinct.

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Claims 1, 5-8 and 16-18 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 14 of copending Application No. 11/441,201 in view of Pecora et al. (Journal of Clinical Oncology, 2002, 20(9):2251-2266). Although the conflicting claims are not identical, they are not patentably distinct from each other because both sets of claims are directed to a method of treating a tumor by administering NDV to a mammal.

Pecora et al. teaches that oncolytic NDV strains, including replication-competent PV701, administered intravenously (i.e., systemically), replicate selectively in human cancer cells implanted in athymic mice resulting in tumor regression (page 2251-introduction). Human patients with various tumor types (e.g., colorectal, pancreatic, renal, breast, lung, carcinoid, etc.) were also given PV701, which is a mesogenic strain of Newcastle Disease Virus (NDV).

It would have been obvious to one of ordinary skill in the art to modify the methods taught by the '201 application to also treat subjects with carcinoid tumors and carcinoid syndrome. One would have been motivated to modify the methods taught by the '201 application given the suggestion by Pecora et al. to treat various malignancies with NDV. There would have been a reasonable expectation of success given the fact that Pecora et al. observed in seven patients with diverse malignancies (including mesothelioma, melanoma, colon carcinoma, breast carcinoma, pancreatic carcinoma, and carcinoid) measurable tumor reduction after treatment with NDV.

The '201 application contemplates treating subjects with tumors, which encompasses carcinoid tumors. This also includes those subjects who have carcinoid

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syndrome (It is well known in the art that patients with carcinoid syndrome have carcinoid tumors). By treating a population of subjects with carcinoid tumors with NDV, the '201 application will also treat the 10% or more of the subjects who also have carcinoid syndrome. Therefore, a person of ordinary skill in the art would recognize that infecting solid tumors, e.g., carcinoid tumors, with NDV according to the method of the '201 application will inherently reduce or treat carcinoid syndrome symptoms in those subjects who have carcinoid syndrome.

Thus, the copending claims and the instant claims are not patentably distinct.

No claim is allowed.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to NICOLE KINSEY WHITE whose telephone number is (571)272-9943. The examiner can normally be reached on Monday through Friday from 9:00 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bruce Campell can be reached on (571) 272-0974. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Nicole Kinsey White/ Examiner, Art Unit 1648

/Stacy B Chen/ Primary Examiner, Art Unit 1648